

## Super-resolution as tool for detecting young protoplanets: WISPIT-2, a new PDS70 system

**Abstract:** The detection and characterisation of young forming protoplanets, still embedded in their disk, is key for our understanding of planet formation scenarios. Yet, while thousands of exoplanets have been detected, only two young protoplanetary systems with multiple planets have been detected so far: PDS 70, and the recently confirmed WISPIT-2 system. For the latter, the confirmation of WISPIT-2c was obtained within the inner working angle of SPHERE coronagraph, by using GRAVITY+'s dual-field interferometry and extreme adaptive-optics. In addition to the detection, the interferometry resolution allows to separate unambiguously the contribution of the disk and from the planet, provides few tens micro-arcsecond astrometry and a R=500 spectrum. In this talk, we give an overview of the observational and instrumental strategy used in this discovery, and instrumental avenues for the detection of protoplanets with interferometry.

